(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



1980 B 1980 B

(43) International Publication Date 15 January 2004 (15.01.2004)

PCT

(10) International Publication Number WO 2004/005836 A1

(51) International Patent Classification7: 1/00, F42B 30/00, F42C 9/10

F41A 19/57,

(74) Agent: DAVIES COLLISON CAVE; 1 Little Collins

(21) International Application Number:

PCT/AU2003/000866

......

(22) International Filing Date: 4 July 2003 (04.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2002950004

5 July 2002 (05.07.2002) AU

(71) Applicant (for all designated States except US): METAL STORM LIMITED [AU/AU]; Level 34, 345 Queen Street, Brisbane, Queensland 4000 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): O'DWYER, Sean, Patrick [AU/AU]; Unit 112, 32 Macrossan Street, Brisbane. Oueensland 4000 (AU). Street, Melbourne, Victoria 3000 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CC, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, RF, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TI, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

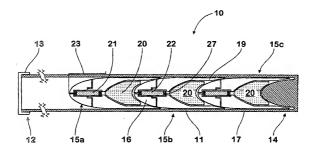
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TI, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IGNITION ARRANGEMENT FOR STACKED PROJECTILES



(57) Abstract: An ignition arrangement for a barrel assembly (10) including a barrel (11) having a plurality of projectiles (15a, 15b, 15c) axially stacked within the barrel (11) together with respective propellant charges (20) for propelling the projectiles sequentially from the barrel, said ignition arrangement including a fuse (21, 22) disposed in a cavity (27) provided in a body (18) of each projectile, wherein the cavity (27) communicates both forwardly (28) and rearwardly (29) of the projectile body (18); whereby in use, said fuse (21) burns at a controlled rate in the cavity (27) and causes ignition of the propellant charge (20) associated with said projectile (15a), which in turn ignites the next following fuse (22) associated with a trailing projectile (15b).